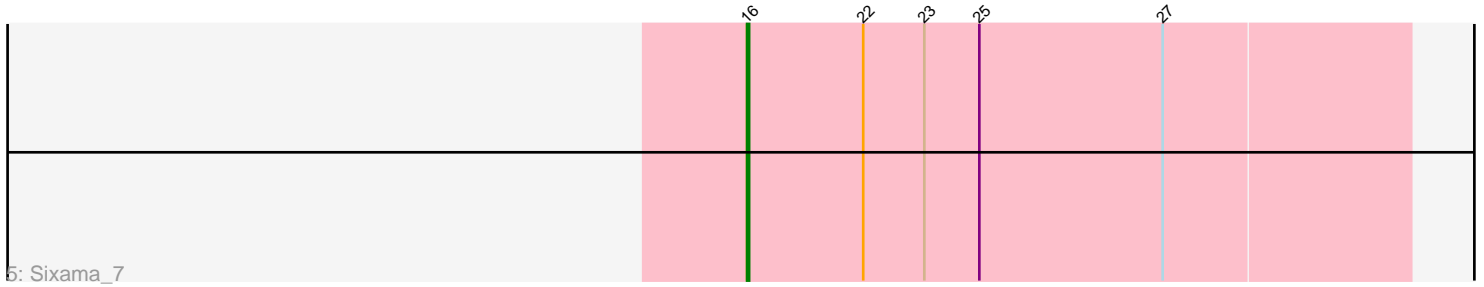
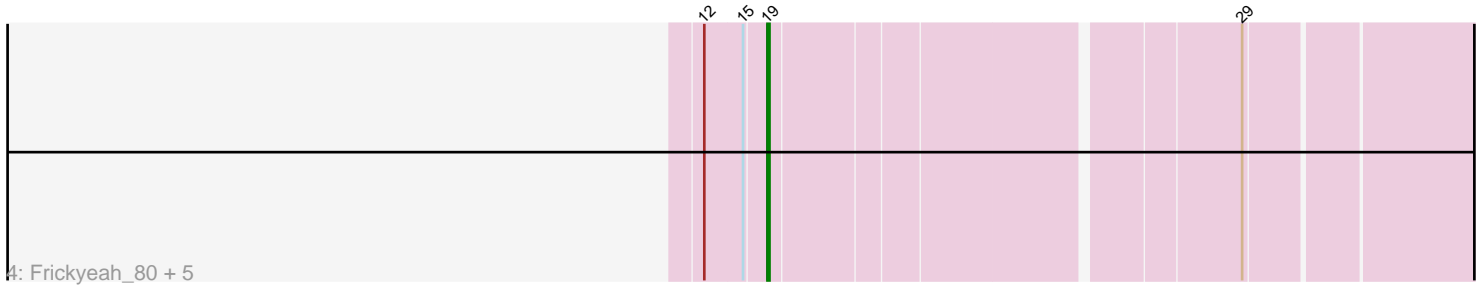
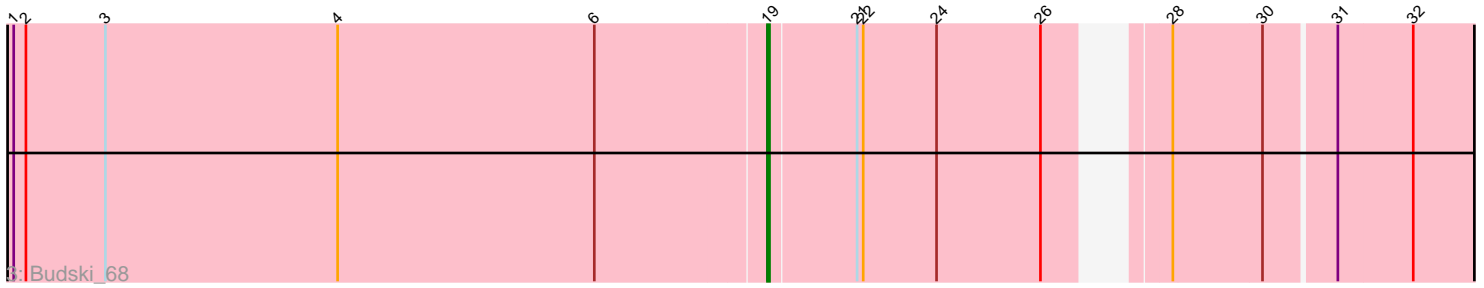
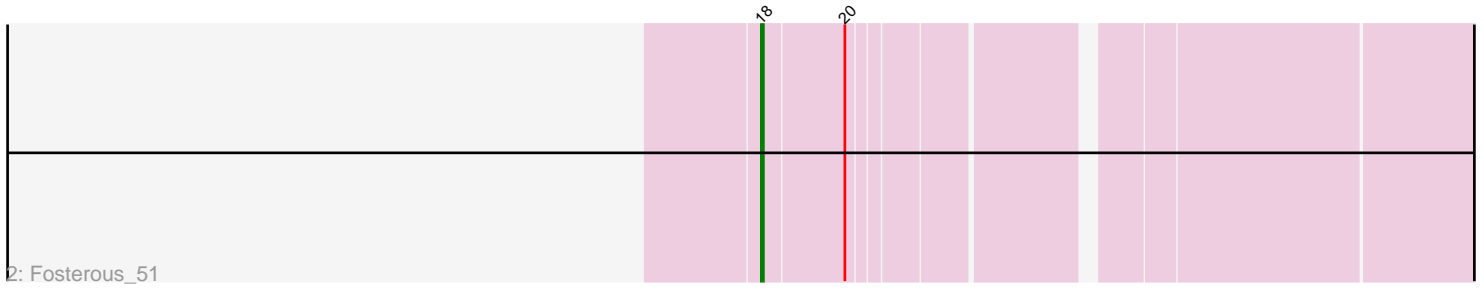
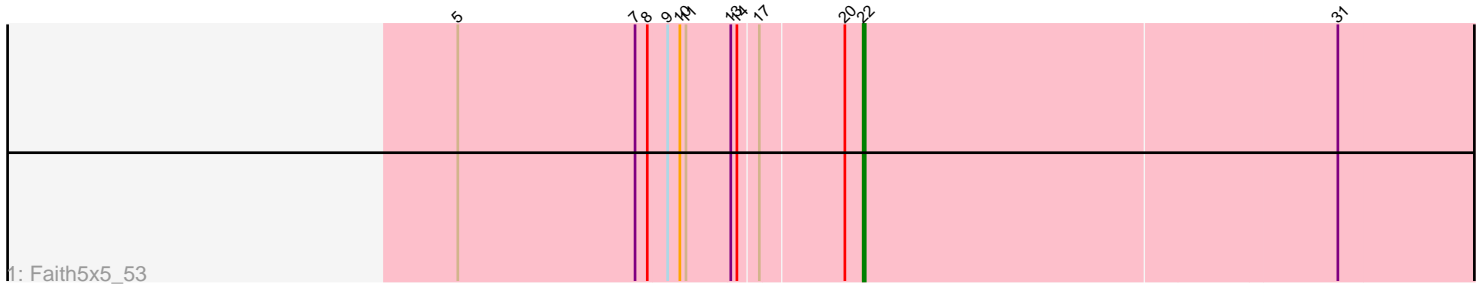


Pham 295323



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 295323 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295323 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Faith5x5\_53
- Track 2 : Fosterous\_51
- Track 3 : Budski\_68
- Track 4 : Frickyeah\_80, Birdsong\_73, Ecliptus\_80, BotCity\_80, BENtherdunthat\_78, Asapag\_74
- Track 5 : Sixama\_7

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 19, it was called in 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag\_74, BENtherdunthat\_78, Birdsong\_73, BotCity\_80, Budski\_68, Ecliptus\_80, Frickyeah\_80,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- Faith5x5\_53, Fosterous\_51, Sixama\_7,

### **Summary by start number:**

Start 16:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sixama\_7 (DS),

Start 18:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Fosterous\_51 (DE1),

Start 19:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 6 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asapag\_74 (DN1), BENtherdunthat\_78 (DN1), Birdsong\_73 (DN), BotCity\_80 (DN), Budski\_68 (DN), Ecliptus\_80 (DN), Frickyeah\_80 (DN1),

Start 22:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Faith5x5\_53 (CZ6),

### **Summary by clusters:**

There are 5 clusters represented in this pham: DN, CZ6, DN1, DS, DE1,

Info for manual annotations of cluster CZ6:

- Start number 22 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DE1:

- Start number 18 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster DN:

- Start number 19 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 19 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DS:

- Start number 16 was manually annotated 1 time for cluster DS.

### **Gene Information:**

Gene: Asapag\_74 Start: 43606, Stop: 43938, Start Num: 19

Candidate Starts for Asapag\_74:

(12, 43579), (15, 43597), (Start: 19 @43606 has 6 MA's), (29, 43819),

Gene: BENtherdunthat\_78 Start: 44652, Stop: 44984, Start Num: 19

Candidate Starts for BENtherdunthat\_78:

(12, 44625), (15, 44643), (Start: 19 @44652 has 6 MA's), (29, 44865),

Gene: Birdsong\_73 Start: 43342, Stop: 43674, Start Num: 19

Candidate Starts for Birdsong\_73:

(12, 43315), (15, 43333), (Start: 19 @43342 has 6 MA's), (29, 43555),

Gene: BotCity\_80 Start: 46160, Stop: 46492, Start Num: 19

Candidate Starts for BotCity\_80:

(12, 46133), (15, 46151), (Start: 19 @46160 has 6 MA's), (29, 46373),

Gene: Budski\_68 Start: 41006, Stop: 41320, Start Num: 19

Candidate Starts for Budski\_68:

(1, 40640), (2, 40646), (3, 40685), (4, 40799), (6, 40925), (Start: 19 @41006 has 6 MA's), (21, 41048), (Start: 22 @41051 has 1 MA's), (24, 41087), (26, 41138), (28, 41174), (30, 41216), (31, 41249), (32, 41285),

Gene: Ecliptus\_80 Start: 46255, Stop: 46587, Start Num: 19

Candidate Starts for Ecliptus\_80:

(12, 46228), (15, 46246), (Start: 19 @46255 has 6 MA's), (29, 46468),

Gene: Faith5x5\_53 Start: 34268, Stop: 34585, Start Num: 22

Candidate Starts for Faith5x5\_53:

(5, 34076), (7, 34163), (8, 34169), (9, 34178), (10, 34184), (11, 34187), (13, 34208), (14, 34211), (17, 34220), (20, 34259), (Start: 22 @34268 has 1 MA's), (31, 34496),

Gene: Fosterous\_51 Start: 43102, Stop: 43419, Start Num: 18

Candidate Starts for Fosterous\_51:

(Start: 18 @43102 has 1 MA's), (20, 43141),

Gene: Frickyeah\_80 Start: 44783, Stop: 45115, Start Num: 19

Candidate Starts for Frickyeah\_80:

(12, 44756), (15, 44774), (Start: 19 @44783 has 6 MA's), (29, 44996),

Gene: Sixama\_7 Start: 2706, Stop: 2383, Start Num: 16

Candidate Starts for Sixama\_7:

(Start: 16 @2706 has 1 MA's), (Start: 22 @2649 has 1 MA's), (23, 2619), (25, 2592), (27, 2502),